professional FIBER OPTIC instruments

XL *fiber*TOOLS™ Series

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Instruments Designed for Fiber Optic Cable Testing.

The XL fiberTOOLS™ are designed for the professional to perform installation and maintenance measurements on fiber optic cabling networks. The instrument family consists of individual devices (optical power meters, 850/1300nm LED sources, 1310/1550nm Laser sources, Visual Fault Locator) and complete Insertion Loss Test Sets. The XL fiberTOOLS™ are designed to accurately measure optical power levels and link loss on multimode and singlemode cabling networks. These full feature general purpose fiber optic instruments are easy to operate and economically priced to outfit all technicians performing fiber optic installation and maintenance.

560XL
Fiber Optic Power Meter

- Easy to use - three buttons control all functions
- Long battery life
- Loss measurements in (dB); power measurements in (dBm)
- 0.01dB measurement resolution
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Greenlee for other available adapters.
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Calibration Wavelengths	850nm, 1300nm, 1310nm and 1550nm	
Power Range	+3 dBm to -60 dBm	
Accuracy	±0.25dB	
Linearity at:	+3dBm to -3dBm	±0.5dB
	-3dBm to -50dBm	±0.05dB
	-50dBm to -60dBm	±0.5dB
Resolution	0.01dB	
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	FC, SC or ST	

Environmental Specifications

Operating Temperature	-15° C to +55° C
Storage Temperature	-35° C to +70° C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

GREENLEE®
A Textron Company

Easy To Use
Three Buttons Control ALL Functions!

567XL Silicon Fiber Optic Power Meter

Optical Specifications

Detector Type	3 x 3.5 mm Silicon	
Calibration Wavelengths	635nm, 780nm, and 850nm	
Power Range	+3 dBm to -60 dBm	
Accuracy	±0.25dB	
Linearity at:	+3dBm to -3dBm	±0.5db
	-3dBm to -50dBm	±0.05db
	-50dBm to -60dBm	±0.5db
Resolution	0.01dB	
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

- Easy to use - three buttons control all functions
- Loss measurements in (dB); power measurements in (dBm)
- 0.01dB measurement resolution
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Greenlee for other available adapters.
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

568XL High Intensity Optic Power Meter

- Easy to use - three buttons control all functions
- Multi-Wavelength Storage: Store and recall reference power levels for faster, more efficient measurements!
- 0.01dB measurement resolution
- Loss measurements in (dB); power measurements in (dBm)
- Snap on connector interface adapts to FC, SC and ST connectors. Contact Greenlee for other available adapters.
- Long battery life
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Detector Type	2 mm indium-arsenide (InGaAs)	
Calibration Wavelengths	980nm, 1310nm, and 1550nm	
Power Range	+25 to -30dBm (1310nm and 1550nm); +25 to -27dBm measurement range at 980nm. To avoid thermal damage, limit exsposure high power (greater than +23dBm) to less than 30 minutes.; +25 to -27dBm (980nm only)	
Linearity at:	+25dBm to +22dBm	±1.0dB
(1310nm and 1550nm)	+22dBm to +18dBm	±0.5dB
	+18dBm to +10dBm	±0.2dB
	+10dBm to -30dBm	±0.05dB
Absolute Accuracy	±0.25dB at calibration conditions	
Wavelength Dependence	975 to 985nm	0.025dB/nm
	1270 to 1330nm	0.0033dB/nm
	1500 to 1625nm	0.0016dB/nm
Polarization Dependence	<0.1dB	
Resolution	±0.01dB	
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)	
Connector Interface	SOC	

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

570XL 850/1300nm LED Source

- 850/1300nm wavelengths
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Fixed connector interface FC, SC or ST
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	850nm	1300nm
Range (Typical)	840nm to 880nm	1270nm to 1345nm
Max. Spectral Width (FWHM)	55nm	150nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power Output		
100/140um	-13dBm	-20dBm
62.5/125um	-13dBm	-20dBm
50/125um	-14dBm	-21dBm
Modular Frequency	270 kHz, 1 kHz and 2 kHz	270 kHz, 1 kHz and 2 kHz
Power Requirements	Two AA size 1.5V batteries (approx. 80 hours continuous operation)	Two AA size 1.5V batteries (approx. 80 hours continuous operation)
Connector Interface	FC, SC or ST	FC, SC or ST

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

580XL 1310/1550nm Laser Source

- 1310/1550nm wavelengths
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Fixed connector interface FC, SC or ST
- Long battery life - approx. 80 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	1310nm	1550nm
Range (Typical)	1280nm to 1340nm	1520nm to 1580nm
Max. Spectral Width (FWHM)	<5nm	<5nm
Stability (1 hour)	±0.05dB	±0.05dB
Typical Power (9/125)		
Minimum	-8dBm	-8dBm
Typical	-7dBm	-7dBm
Modular Frequency	270 kHz, 1 kHz and 2 kHz	270 kHz, 1 kHz and 2 kHz
Power Requirements	Two AA size 1.5V batteries (approx. 80 hours continuous operation)	Two AA size 1.5V batteries (approx. 80 hours continuous operation)
Connector Interface	FC, SC or ST	FC, SC or ST

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011 Group1, Class A EN50082-1: 1992 IEC 801-2, -3, -4
CDRH Laser Class	Class 1

573XL

650nm LED Source for Large Core Plastic and Glass Fiber

- 650nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- ST connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	650nm
Range (Typical)	630nm to 670nm
Max. Spectral Width (FWHM)	<20nm
Stability (1 hour)	±0.05dB
Power Output into MM 200/300 SI Fiber	-15dBm ±0.5dB
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±0.5dB
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	ST

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

577XL M90

850nm LED Source with M90 Launch Condition *using 62.5/125 Fiber*

- 850nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Universal connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	850nm
Range (Typical)	840nm to 880nm
Max. Spectral Width (FWHM)	<55nm
Stability (1 hour)	±0.05dB
Launch Profile	M90
Power Output into MM 62.5/125 GI fiber	-13dBm ±0.5dB
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±5%
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal connector interface, physical contact (UCI-PC)

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

577XL AS100

850nm LED Source with AS-100 Launch Condition *using 100/140 Fiber*

- 850nm wavelength
- Stable calibrated output
- Easy to use
- Continuous wave and modulated output
- Universal connector interface
- Long battery life - approx. 24 hours
- User selectable auto shut-off
- Rugged and splash-proof
- Economically priced

Optical Specifications

Center Wavelength	850nm
Range (Typical)	840nm to 880nm
Max. Spectral Width (FWHM)	<55nm
Stability (1 hour)	±0.05dB
Launch Profile	AS100
Power Output into MM 100/140 GI fiber	-13dBm ±0.5dB
Modular Frequencies	270 kHz, 1 kHz and 2 kHz ±5%
Power Requirements	Two AA size 1.5V batteries (approx. 24 hours continuous operation)
Connector Interface	Universal connector interface, physical contact (UCI-PC)

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-35º C to +70º C
Humidity	0 to 95% non-condensing
Dimensions	7.2 x 14.2 x 3.5 cm (2.8 x 5.6 x 1.4 in.)
Weight	241g (8.5 oz.)
CE	EN61010; EN50081-1:1992; EN55011,Group 1, Class A EN50082-1: 1992 IEC 801-2, -3, -4

5670XL Multimode Fiber Optic Test Set

- Insertion loss test set for multimode fiber
- 850/1300nm loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy-to-use portable package
- Economically priced

5670-FC Includes	
560XL	Optical Power Meter
570XL-FC	850/1300nm LED Source w/FC Connector
T1020	FC/PC SOC Adapter
914B	Carrying Case

5670-SC Includes	
560XL	Optical Power Meter
570XL-SC	850/1300nm LED Source w/SC Connector
1062	SC/PC SOC Adapter
914B	Carrying Case

5670-ST Includes	
560XL	Optical Power Meter
570XL-ST	850/1300nm LED Source w/ST Connector
T1030	ST/PC SOC Adapter
914B	Carrying Case

5680XL Singlemode Fiber Optic Test Set

- Insertion loss test set for singlemode fiber
- 1310/1550nm loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy-to-use portable package
- Economically priced

5680-FC Includes	
560XL	Optical Power Meter
580XL-FC	1310/1550nm Laser Source w/FC Connector
T1020	FC/PC SOC Adapter
914B	Carrying Case

5680-SC Includes	
560XL	Optical Power Meter
580XL-SC	1310/1550nm Laser Source w/SC Connector
1062	SC/PC SOC Adapter
914B	Carrying Case

5680-ST Includes	
560XL	Optical Power Meter
580XL-ST	1310/1550nm Laser Source w/ST Connector
T1030	ST/PC SOC Adapter
914B	Carrying Case

5890XL Multimode and Singlemode Fiber Optic Test Set

- Insertion loss test set for multimode and singlemode fiber
- 850/1300nm Loss measurements
- 1310/1550nm Loss measurements
- Connector for FC, SC or ST
- Rugged package design
- Easy-to-use portable package
- Economically priced

5890-FC Includes	
560XL	Optical Power Meter
570XL-FC	850/1300nm LED Source w/FC Connector
580XL-FC	1310/1550nm Laser Source w/FC Connector
T1020	FC/PC SOC Adapter
915B	Carrying Case

5890-SC Includes	
560XL	Optical Power Meter
570XL-SC	850/1300nm LED Source w/SC Connector
580XL-SC	1310/1550nm Laser Source w/SC Connector
1062	SC/PC SOC Adapter
915B	Carrying Case

5890-ST Includes	
560XL	Optical Power Meter
570XL-ST	850/1300nm LED Source w/ST Connector
580XL-ST	1310/1550nm Laser Source w/ST Connector
T1030	ST/PC SOC Adapter
915B	Carrying Case

Connector Cleaning Tools

948 Connector Reel Cleaner

The Reel Cleaner is an all-in-one connector cleaning tool. A complete self-contained unit requiring no additional components to clean fiber optic connectors. Recommended for cleaning FC, SC and ST connectors. To clean a connector, the user opens the shutter by gripping the lever and then sliding the connector end face along the exposed cleaning surface while gripping the lever.

170XL Visual Fault Finder

- Continuous wave output mode for steady fault location
- Find breaks to 5km
- Blinking output mode increases viewing contrast
- Easy-to-use quick interface fits all 2.5mm connector interfaces (FC, SC, ST)
- 1.0mW output power
- Ergonomic rotary switch permits easy one-handed operation
- Rugged, compact and splash-proof aluminum design
- Two AA batteries provide 48 hours continuous operation
- Nylon belt holster included

Optical Specifications

Light Source Type	655nm Red laser Diode
Center Wavelength	655nm
Range (Typical)	645nm to 655nm
Max. Spectral Width (FWHM)	<5nm
Power Output	
Max. into SMF-28 Fiber	1.0mW (0dBm)
Min. CW Output Mode	316uW (-5dBm)
Blink Frequencies in MOD mode	<3kHz approximate
Power Requirements	Two AA size 1.5V batteries (approx. 48 hours continuous operation)
Connector Interface	Standard "Quick Connect" universal 2.5mm receptacle

Environmental Specifications

Operating Temperature	-10º C to +50º C
Storage Temperature	-40º C to +60º C
Humidity	0 to 95% non-condensing
Dimensions	Length: 22 cm (9.0 in.) Diameter: 2.54 cm (1 in.)
Weight	200g (7.0 oz.)
CDRH Laser Class	Class IIIa
CE	IEC 60-1-2 portion of the EN50082-1 ESD immunity requirement EN50082-1: 1992 IEC 801-2, -3, -4

510XL SensoLITE™ Light Detector

Promotes workplace safety – can help prevent accidental eye exposure to hazardous laser radiation when used as directed

- Detects visible and invisible light wavelengths (630nm to 1600nm)
- Saves time and eliminates guesswork
- Simple, durable, and easy to use
- Works with bare and connectorized fibers
- Accepts all fiber and most connector types
- Wide sensitivity range: from -55dBm to +25dBm
- Presence of light indicated by an audible signal and an illuminated front panel LED
- Unique design permits testing in bright ambient light conditions
- Long battery life—up to one year of normal use
- Low battery indicator
- Replaceable light blocking curtain

Optical Specifications

Center Wavelength	630nm to 1600nm
Detector	PIN-type germanium
Optical Interface	Direct connection to bare or connectorized fibers; No specialized adapters required
Sensitivity	
630nm	< -40dBm
850nm	< -55dBm
1300nm	< -55dBm
1550nm	< -55dBm
Output Indicators	
Light > -40dBm	Amber LED/audible signal
Battery test	Green LED
Power Requirements	Two AA size 1.5V batteries (approx. 100 hours continuous operation)

Environmental Specifications

Operating Temperature	-15º C to +55º C
Storage Temperature	-25º C to +70º C
Humidity	0 to 90% RH, non-condensing
Dimensions	14.2 x 4.3 x 3.3 cm (5.6 x 1.7 x 1.3 in.)
Weight	120g (4.2 oz.) with batteries

Snap On Connector (SOC) for Fiber Optic Power Meter

Snap On Connectors (SOC) are used on the 560XL Fiber Optic Power Meter. The Snap On Connectors configure the optical power meter for various optical connectors. Contact Greenlee for other available adapters.

FC

T1020

ST

T1030

SC

1062

Universal Connector Interface (UCI) for 577XL family

User will need to purchase a Universal Connector Interface (UCI) adapter for use of the instrument. Please specify the desired connector adapter type when ordering. Contact Greenlee for other available adapters.

FC

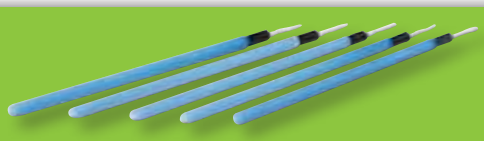
APC-108

SC

ASC-108

ST

AST-108



946 Adapter Cleaning Wands

Adapter wands are a convenient, economical and disposable way to clean and maintain fiber optic interfaces and bulkhead adapters. Incorporating the same lint-free material as the all-in-one Connector Reel Cleaner, cleaning wands are effective in removing contaminants from hard-to-reach connector end face ferrule alignment sleeves. Ten cleaning wands come in each package.

Ordering Information

Cat No.	UPC	Description	Qty
170XL	84501	VISUAL FAULT FINDER	1
510XL	00024	SensoLITE™ LIGHT DETECTOR	1
560XL	84485	FIBER OPTIC POWER METER	1
567XL	00025	FIBER OPTIC POWER METER SI, (SOC)	1
568XL	00026	FIBER OPTIC POWER METER, SOC-HP INGAAS	1
570XL-FC	84486	850/1300NM LED SOURCE W/FC INTERFACE	1
570XL-SC	84487	850/1300NM LED SOURCE W/SC INTERFACE	1
570XL-ST	84488	850/1300NM LED SOURCE W/ST INTERFACE	1
573XL	00023	650NM LED SOURCE W/ST INTERFACE	1
577XL AS100	00029	850NM LED SOURCE WITH AS100 LAUNCH	1
577XL M90	00027	850NM LED SOURCE WITH M90 LAUNCH	1
580XL-FC	84489	1310/1550NM LASER SOURCE W/FC INTERFACE	1
580XL-SC	84490	1310/1550NM LASER SOURCE W/SC INTERFACE	1
580XL-ST	84491	1310/1550NM LASER SOURCE W/ST INTERFACE	1
5670-FC	84492	MULTIMODE FIBER OPTIC TEST SET W/FC INTERFACE	1
5670-SC	84493	MULTIMODE FIBER OPTIC TEST SET W/SC INTERFACE	1
5670-ST	84494	MULTIMODE FIBER OPTIC TEST SET W/ST INTERFACE	1
5680-FC	84495	SINGLEMODE FIBER OPTIC TEST SET W/FC INTERFACE	1
5680-SC	84496	SINGLEMODE FIBER OPTIC TEST SET W/SC INTERFACE	1
5680-ST	84497	SINGLEMODE FIBER OPTIC TEST SET W/ST INTERFACE	1
5890-FC	84498	MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/FC INTERFACE	1
5890-SC	84499	MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/SC INTERFACE	1
5890-ST	84500	MULTIMODE AND SINGLEMODE FIBER OPTIC TEST SET W/ST INTERFACE	1
APC-108	60572 (A)	FC/PC UCI ADAPTER	1
AST-108	60573 (A)	ST/PC UCI ADAPTER	1
ASC-108	60574 (A)	SC/PC UCI ADAPTER	1
1062	60575 (A)	SC/PC SOC ADAPTER	1
T1020	60576 (A)	FC/PC SOC ADAPTER	1
T1030	60577 (A)	ST/PC SOC ADAPTER	1
948	60692 (A)	CONNECTOR REEL CLEANER CLEANING SYSTEM	1
946	60571 (A)	2.5 MM CLEANING WANDS	10

(R) = REPLACEMENT PART (A) = ACCESSORY

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www.greenlee.com MA-5636 5/11

4455 Boeing Drive • Rockford, IL 61109-2988 • USA • 815-397-7070

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